

US-PAT-NO: 5350541

DOCUMENT-IDENTIFIER: US 5350541 A

TITLE: Hard surface detergent compositions

DATE-ISSUED: September 27, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Michael; Daniel W.	Cincinnati	OH		
Maile; Michael S.	Maineville	OH		

US-CL-CURRENT: 510/424, 510/214, 510/365, 510/437, 510/499, 510/506

## ABSTRACT:

Detergent compositions comprising nonionic detergent surfactant; hydrophobic cleaning solvent; and suds control system comprising fatty acid and anionic sulfonated and/or sulfated detergent surfactant. The compositions are preferably in the form of aqueous liquids and preferably have monoethanolamine and/or beta-aminoalkanol present.

20 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMC	Draw Desc	Image
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USPT	fabric or textile	147007	<u>L5</u>
USPT	12 and 13	37141	<u>L4</u>
USPT	static function coefficient	1209483	<u>L3</u>
USPT	article same detergent impregnated	84735	<u>L2</u>
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USPT	(non-woven or woven or knitted)same fabric	36969	<u>L9</u>
USPT	14 and 17	2716	<u>L8</u>
USPT	15 and 16	22976	<u>L7</u>
USPT	silicone oil same abrasive particles same (water or h20)	205602	<u>L6</u>
USPT	fabric or textile	147007	<u>L5</u>
USPT	12 and 13	37141	<u>L4</u>
USPT	static function coefficient	1209483	<u>L3</u>
USPT	article same detergent impregnated	84735	<u>L2</u>
USPT	(5350541 or 6003191)[pn]	2	<u>L1</u>

**WEST****Generate Collection****Search Results - Record(s) 1 through 2 of 2 returned.**☒ **1. Document ID: US 6003191 A**

L1: Entry 1 of 2

File: USPT

Dec 21, 1999

US-PAT-NO: 6003191

DOCUMENT-IDENTIFIER: US 6003191 A

TITLE: Cleaning implement

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sherry, Alan Edward	Cincinnati	OH		
Holt, Steven Allen	Cincinnati	OH		
Mackey, Larry Neil	Fairfield	OH		
Ping, III, Vernon Sanford	Cincinnati	OH		

US-CL-CURRENT: 15/228, 15/209.1, 15/244.2, 15/244.3

## ABSTRACT:

A cleaning implement comprising a handle and a removable cleaning pad. The cleaning pad exhibits the ability to initially delay absorption of cleaning fluid, soil and the like, but then absorb those materials after this initial delay.

48 Claims, 10 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FullC	Draw Desc	Image
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☒ **2. Document ID: US 5350541 A**

L1: Entry 2 of 2

File: USPT

Sep 27, 1994

☐ 2. Document ID: US 5919471 A

L12: Entry 2 of 12

File: USPT

Jul 6, 1999

US-PAT-NO: 5919471

DOCUMENT-IDENTIFIER: US 5919471 A

TITLE: Substantially anhydrous antiseptic wipes

DATE-ISSUED: July 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saferstein, Lowell	West Orange	NJ	07052	
Kelly, Albert R.	Douglaston	NY	11363	

US-CL-CURRENT: 424/402; 424/404

## ABSTRACT:

A substantially flexible, dry matrix with antimicrobial properties is made from a matrix comprising natural or synthetic, woven, non-woven or knitted fibers, said matrix having been uniformly coated with an amount of a non-aqueous treatment solution sufficient to allow said matrix to retain its substantially dry characteristics. In a preferred embodiment, said non-aqueous treatment solution has between about 70% and 99% of at least one glycol compound, between about 1% and 15% of a PVP-iodine and optionally between about 0 and 15% of a non-ionic surfactant.

Also, skin is treated to prevent disease, such as the disinfecting of teats on dairy cows during milking, by wiping the skin with the article.

21 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 3. Document ID: US 5904418 A

L12: Entry 3 of 12

File: USPT

May 18, 1999

US-PAT-NO: 5904418

DOCUMENT-IDENTIFIER: US 5904418 A

TITLE: Automatic kneading apparatus and fallen material returning apparatus

DATE-ISSUED: May 18, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaminaga; Kenzo	Tokyo			JPX
Suzuki; Masaaki	Tokyo			JPX
Kimura; Takashi	Tokyo			JPX
Kato; Keisuke	Tokyo			JPX
Nogami; Yuji	Tokyo			JPX
Hirakuri; Yoshihisa	Tokyo			JPX
Chino; Takashi	Tokyo			JPX
Kawamura; Takao	Tokyo			JPX
Tsutsumi; Atsushi	Tokyo			JPX
Takeuchi; Masaru	Ibaraki-ken			JPX
Yoshikoshi; Hideo	Ibaraki-ken			JPX

US-CL-CURRENT: 366/71; 366/72; 366/73; 425/201; 425/217; 425/230

## ABSTRACT:

A sheet-testing apparatus including kneading rolls, a frame feeder, sheet applicator, foreign material detector, a frame with a light transparent window and a cutter for cutting a sheet. A sheet-testing sample-making apparatus has a cluster of kneading rolls, frame feeder, and sheet applicator. A sheet thickness detection apparatus outputs an electric signal to a memory. A kneading apparatus has a pair of heating rolls separated by a gap. The directions and speeds of rotations of the rolls are adjustable. A sensor detects the gap and a bank sensor detects the condition of a bank in the gap. The distance between the rolls, their temperatures, rotations, and speeds are automatically controlled. A pair of blades peel a sheet from the sheet-winding roll. Material dropped through the gap between the heating rolls is returned to a point above the gap. A cutting device has a length of wire sprung onto a rolled sheet to sever the sheet. A heating roll cleaning device brings cleaning rolls into sliding engagement with the heating rolls. A heating roll cleaning device feeds an elongated cloth-like cleaning member for cleaning heating rolls.

4 Claims, 48 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 32

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 4. Document ID: US 5854145 A

L12: Entry 4 of 12

File: USPT

Dec 29, 1998

US-PAT-NO: 5854145

DOCUMENT-IDENTIFIER: US 5854145 A

TITLE: Corrosion inhibitor solution applicator

DATE-ISSUED: December 29, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chandler, Christophe	Woodbury	MN		
Kharshan, Margarita	Little Canada	MN		
Dusing, Dan L.	Moundsview	MN		
Jaeger, Paul	St. Paul	MN		

US-CL-CURRENT: [442/59](#); [106/14.13](#), [106/14.18](#), [106/14.28](#), [106/8](#), [252/392](#), [252/396](#), [442/327](#)

## ABSTRACT:

A package for facilitating the protection of metallic surfaces against corrosion and including a blend of corrosion inhibitor and surface-conditioning component such as a degreaser, descaler, and/or anti-static component in liquid state impregnated into a substrate such as a wipe for simultaneous and direct application to the surface of the article being protected. The corrosion inhibitor component is preferably an amine salt of carboxylic acid, triazole, an alkali metal salt of aldonic acid, or alkanolamine salts of fatty acids, an alkali metal or alkanolamine salt of aromatic sulfonic acid, or blends thereof. The substrate is preferably a wipe fabricated from a fabric such as soft cotton, but may also include other wipe materials such as woven or non-woven polyolefin fabric, or non-woven materials such as paper toweling.

12 Claims, 3 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 5. Document ID: US 5445825 A

L12: Entry 5 of 12

File: USPT

Aug 29, 1995

US-PAT-NO: 5445825

DOCUMENT-IDENTIFIER: US 5445825 A

TITLE: Disposable personal dental hygiene assembly

DATE-ISSUED: August 29, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Copelan; Phoebe	Rancho Mirage	CA		
Copelan; James B.	Pasadena	CA		

US-CL-CURRENT: 424/448, 424/400, 424/405

## ABSTRACT:

From prior oral hygiene devices, this invention, in its preferred embodiment, is dry and intended for oral use in cleaning and polishing the teeth and for cleaning the gums, tongue, and surrounding mucosa of the mouth and in plaque removal, with the user's own mouth furnishing the only liquid required, which reconstitutes, in situ, the ingredients which are dehydrated and/or impregnated within a membrane.

5 Claims, 11 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 6. Document ID: US 5343278 A

L12: Entry 6 of 12

File: USPT

Aug 30, 1994

US-PAT-NO: 5343278

DOCUMENT-IDENTIFIER: US 5343278 A

TITLE: Cleaning roll material and fixing apparatus

DATE-ISSUED: August 30, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakabayashi, Akira	Urawa			JPX
Maeda, Kenji	Osaka			JPX

US-CL-CURRENT: 399/326; 15/209.1

## ABSTRACT:

In order to reliably clean a thermal fixing roll for fixing a non-fixed image in an image forming apparatus such as a copier or a laser beam printer, a non-woven fabric web having a crisscross structure or a parallel structure with a thermally bonded fiber sheet is disposed at least on the side in contact with the fixing roll. The thermally bonded fiber sheet comprises composite fibers including 5 to 70% by weight of electroless nickel plated 'CONEX' fibers, which is obtained by depositing metallic nickel to a thickness of up to and including 0.2 .mu.m by an electroless plating method on 'CONEX' fibers which have the surface formed with stripe-like grooves, macrovoids, fine irregularities or a modified cross-section and is heat-resistant and excellent in adhesion for nickel, in addition to non-plated 'CONEX' fibers and undrawn polyester fibers. Preferably, the above non-fabric web is impregnated with a heat-resistant cationic charging agent as a cleaning roll material.

6 Claims, 5 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 7. Document ID: US 5218410 A

L12: Entry 7 of 12

File: USPT

Jun 8, 1993

US-PAT-NO: 5218410

DOCUMENT-IDENTIFIER: US 5218410 A

TITLE: Cleaning roll material and fixing apparatus

DATE-ISSUED: June 8, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakabayashi, Akiro	Urawa			JPX
Maeda, Kenji	Osaka			JPX

US-CL-CURRENT: 399/326; 15/209.1

## ABSTRACT:

In order to reliably clean a thermal fixing roll for fixing a non-fixed image in an image forming apparatus such as a copier or a laser beam printer, a non-woven fabric web having a crisscross structure or a parallel structure with a thermally bonded fiber sheet is disposed at least on the side in contact with the fixing roll. The thermally bonded fiber sheet comprises composite fibers including 5 to 70% by weight of electroless nickel plated 'CONEX' fibers, which is obtained by depositing metallic nickel to a thickness of up to and including 0.2 .mu.m by an electroless plating method on 'CONEX' fibers which have the surface formed with stripe-like grooves, macrovoids, fine irregularities or a modified cross-section and is heat-resistant and excellent in adhesion for nickel, in addition to non-plated 'CONEX' fibers and undrawn polyester fibers. Preferably, the above non-fabric web is impregnated with a heat-resistant cationic charging agent as a cleaning roll material.

6 Claims, 5 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☒ 8. Document ID: US 5141803 A

L12: Entry 8 of 12

File: USPT

Aug 25, 1992

US-PAT-NO: 5141803

DOCUMENT-IDENTIFIER: US 5141803 A

TITLE: Nonwoven wipe impregnating composition

DATE-ISSUED: August 25, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pregozen, David	Park Ridge	NJ		

US-CL-CURRENT: [442/123](#), [15/104.93](#), [15/209.1](#), [206/812](#), [424/404](#), [510/131](#), [510/384](#), [514/635](#)

## ABSTRACT:

An aqueous composition for impregnating a nonwoven wipe having a pH of from 3.5 to 4.5 and containing a preservative system comprising potassium sorbate, citric acid, disodium EDTA and a cationic biocide selected from polyhexamethylene biguanide hydrochloride and poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]; and a moistened wipe, impregnated with the aqueous composition, useful for cleaning or delivering active ingredients to animate and inanimate surfaces.

14 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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 9. Document ID: US 5133971 A

L12: Entry 9 of 12

File: USPT

Jul 28, 1992

US-PAT-NO: 5133971

DOCUMENT-IDENTIFIER: US 5133971 A

TITLE: Personal dental hygiene assembly

DATE-ISSUED: July 28, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Copelan, Phoebe	Rancho Mirage	CA	92270	
Copelan, James B.	Glendale	CA	91203	

US-CL-CURRENT: [424/448](#), [15/244.1](#), [424/405](#), [424/435](#), [424/443](#), [549/356](#)

## ABSTRACT:

From prior oral hygiene devices, this invention, in its preferred embodiment, is dry and intended for oral use in cleaning and polishing the teeth and for cleaning the gums, tongue, and surrounding mucosa of the mouth and in plaque removal, with the user's own mouth furnishing the only liquid required, which reconstitutes in situ, the ingredients which are dehydrated and/or impregnated within a membrane.

18 Claims, 11 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 10. Document ID: US 5091102 A

L12: Entry 10 of 12

File: USPT

Feb 25, 1992

US-PAT-NO: 5091102

DOCUMENT-IDENTIFIER: US 5091102 A

TITLE: Method of making a dry antimicrobial fabric

DATE-ISSUED: February 25, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheridan, Christopher H.	Cresskill	NJ		

US-CL-CURRENT: 15/104.93, 252/88.2, 424/404, 424/409, 424/414, 510/238, 510/241, 510/242, 510/244, 510/384, 510/391, 510/394

## ABSTRACT:

A method for making a substantially flexible dry matrix and the result and article capable of cleaning a surface by removing dust and/or organic film and rendering the surface substantially static-free, suitable for use as a garment, air filter or mat, comprising a matrix comprising natural or synthetic, woven, non-woven or knitted fibers, or a flexible foam material, said matrix having been uniformly coated with an amount of treatment solution sufficient to allow said matrix to retain its substantially dry characteristics, said solution comprising between about 25% and 75% of at least one glycol compound, between about 0.2% and 60% of a cationic surfactant, an antimicrobial compound and optionally up to about 45% of a nonionic surfactant may be added to the treatment solution. When removing organic film, the wipe is contacted with water and used to wash the surface, and can then be rung out and used to wipe the surface dry.

58 Claims, 0 Drawing figures Exemplary Claim Number: 1,53

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☒ 11. Document ID: US 4753844 A

L12: Entry 11 of 12

File: USPT

Jun 28, 1988

US-PAT-NO: 4753844

DOCUMENT-IDENTIFIER: US 4753844 A

TITLE: Disposable semi-moist wipes

DATE-ISSUED: June 28, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; Jack D.	Guttenberg	NJ		
Gandhi; Ashwin	Toms River	NJ		
Girgis; Arlette	Kearney	NJ		

US-CL-CURRENT: 442/165; 442/170

## ABSTRACT:

A disposable article for interim cleaning of hard surfaces comprises a non-woven substrate, carrying an aqueous cleaning composition loaded onto the substrate at a level less than about 85%, preferably less than 75%, of its absorbence capacity. The aqueous composition comprises: optionally, one or more nonionic surfactants, one or more anionic surfactants or mixture of nonionic and anionic surfactants; a water miscible solvent for oils, (preferably a low molecular weight alcohol or N-methyl-2-pyrrolidone); and an alkalinity agent, such as ammonium hydroxide, in sufficient amount to maintain the pH of the extracted solution within the range of 8 to 12. The non-woven substance is preferably a non-chemically bonded fibrous material.

33 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☒ 12. Document ID: US 4239792 A

L12: Entry 12 of 12

File: USPT

Dec 16, 1980

US-PAT-NO: 4239792

DOCUMENT-IDENTIFIER: US 4239792 A

TITLE: Surface wiping device

DATE-ISSUED: December 16, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ludwa, Raymond J.	Fairfield	OH		

US-CL-CURRENT: 428/198; 442/415

## ABSTRACT:

Disposable devices useful for cleaning and wiping hard surfaces. The devices have a core interposed between and laminated to two outer layers. The core is preferably an absorbent paper web, while the outer layers are preferably apertured nonwoven fabrics having defined properties. The wiping device is strong, absorbent, and will retain sufficient water after manual wringing to clean soiled surfaces, and will leave the cleaned surface essentially dry.

10 Claims, 2 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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